

Title (en)

METHOD FOR PRODUCING A BETA-1,3-GLUCAN WITH IMPROVED CHARACTERISTICS

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES BETA-1,3-GLUKANS MIT VERBESSERTEN EIGENSCHAFTEN

Title (fr)

PROCEDE DE PRODUCTION D'UN BETA-1,3-GLYCANE A PROPRIETES AMELIOREES

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Application

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Abstract (en)

[origin: WO2004078788A1] The invention relates to a method for producing a beta-1,3-glucan. According to said method, a matrix containing glucan is treated with a protein having a beta(1,3)-glucanase activity, the concentration of the glucanase amounting to between 0.001 and 3.0 wt. %. The glucane-containing matrix can be a fermentation broth, a culture medium or a suspension, optionally containing undissolved solids, cellular constituents and/or cellular fragments, or it can be a mycelium, a hydrocolloid or a powder preparation having a solvent part amounting to between 20 and 99.9 wt. %. The enzymatic treatment is continuously carried out over between 15 minutes and 24 hours. The glucan-containing matrix is filtered or centrifuged following the enzymatic treatment and the glucan is separated. The invention also relates to a thus produced beta-1,3-glucan with, for example, improved cold water solubility, a reduced quantity of insoluble constituents, increased viscosity or improved filtering properties. The invention further relates to a solid formulation and the use of said glucan for cosmetic applications, foodstuffs or oil recovery.

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